

What Is Claimed Is:

1. An individual authentication system in which:  
an authentication examinee has a means for measuring acoustic characteristic information of an auditory organ wherein the means  
5 include a sound sending part and a signal processing part for sound;  
an authentication executor has acoustic characteristic information of an auditory organ of authentication subjects collected in advance; and  
the authentication executor authenticates individuals by  
10 comparing acoustic characteristic information of an auditory organ of the authentication examinee measured by using the means for measuring acoustic characteristic information of an auditory organ, and the acoustic characteristic information of an auditory organ of the authentication subjects collected in advance.

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2. The individual authentication system according to claim 1 wherein the signal processing part for performing signal processing for sound information measures a difference of electrical characteristics of the sound sending part between one occasion that  
20 the sound sending part sends the sound to an open space and another occasion that the sound sending part sends the sound to a closed space in a manner that the sound sending part and the auditory organ of an authentication examinee are close to each other, as an acoustic characteristic information of the auditory organ.

3. The individual authentication system according to claim 1, wherein the acoustic characteristic information is acoustic impedance.

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4. The individual authentication system according to claim 1, wherein the acoustic characteristic information is reflected wave characteristic information.

10 5. The individual authentication system according to claim 1, wherein the sound sending part is piezoelectric element.

6. The individual authentication system according to claim 1, wherein the sound sending part is voice coil.

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7. The individual authentication system according to claim 1 wherein the authentication examinee further has a transmitting means;

the transmitting means transmits the measured acoustic characteristic information of an auditory organ of the authentication examinee after the authentication executor compares acoustic characteristic information of an auditory organ of the authentication examinee measured by using the means for measuring acoustic characteristic information of an auditory organ, and the

acoustic characteristic information of an auditory organ of the authentication subjects collected in advance.

8. The individual authentication system according to claim 5 7, wherein the transmitting means is cellular phone.

9. The individual authentication system according to claim 7, wherein the transmitting means is personal computer connected with internet.

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10. The individual authentication system according to claim 7, wherein the transmitting means is desk phone.